



SPACE

DESIGNERS AND ARCHITECTS

104 -PUNEET VRINDAVAN, SANJAY PLACE

AGRA. MOB: 9412588586 MAIL: architect.mukul@gmail.com

Mukul Sharma

B. Tech (Arch.), M. Plan

REG. NO. 08/ENGG/ADA/2001-2002

DATE: 16-02-19

SUMMARY
Internal Development Work

1	Road works	Rs.	17457500.00
2	Drains	Rs.	6743972.00
3	Culverts	Rs.	2662621.00
4	Parks	Rs.	4202073.00
5	Water Supply	Rs.	1684300.00 ✓
6	Sewer Line	Rs.	5542036.00
7	Plantation and land scapping in parks	Rs.	3404168.00
8	Over Head Tank (OHT) with boring, rising main and pump room etc.	Rs.	17500000.00
9	Construction of STP with machinery etc.	Rs.	4000000.00
10	External Electrification	Rs.	5860131.00 ✓
Total		Rs.	69056801.00 ✓

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Name of Project :-**Estimate of Internal Development**

(A) Construction of Roads			
Total area of road			16165.00 Sqm.
(i) Earth work in filling	16165×0.60	=	9699.00 Sqm.
(ii) Construction GSB			
Black top area of 12mm wide road	587.68×7.00	=	4113.76 Sqm.
Black top area of 9mm wide road	31.028×3.60	=	111.67 Sqm.
Black top area of 7.5mm wide road	401.54×3.00	=	1204.62 Sqm.
	Total		5430.05 Sqm.
Qty. of GSB on 6m wide road	5430.05×0.20	=	1086.01 Sqm.
	1387.42×3.60×0.15	=	749.21 Sqm.
	Total =		1835.22 Sqm.
	Say =		1836.00 Sqm.
(iii) Supply and laying of interlocking tiles on 6m wide road	1387.42×3.60	=	4994.71 Sqm.
(iv) Providing and applying primer coat		=	5430.00 Sqm.
(v) Providing and applying tack coat	5430.00×2	=	10860.00 Sqm.
(vi) Providing and laying BM	5430.00×0.10×2.20	=	1194.60 MT
	Say =		1195.00 MT
(vii) Providing and laying SDC	5430.00×0.04×2.30	=	499.56 MT
	Say =		500.00 MT

DRAIN

Length of roads	12Mtr.	587.68
	9Mtr.	31.02
	7.5Mtr.	401.54
	6.00Mtr.	1387.42
	Total	2407.66
Length of drains	2×2407.66	4815.32
	Say =	4815.00

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1	Excavation	1×4815.00×0.90×0.30	1300.05	@130.00	169006.50
2	CC 1:5:10	1×4815.00×0.90×0.10	433.35	@3900.00	1690065.00
3	BW in 1:4	2×4815.00×0.23×0.45	996.71	@400.00	398682.00
4	Plinth	2×4815.00×0.45	4333.50	@150.00	650025.00
5	CC	3×4815.00×0.23×0.025	83.06	@6350.00	527423.06
Total					3435201.56
12% GST					412224.19
Total					3847425.75

Number of Culvert

Taking average length

7.00Mtr = 210.00

30 Nos.

1	Excavation	210.00×2.30×0.60	289.80	@130.00	37674.00
2	CC 1:5:10	210.00×2.30×0.23	111.09	@3900.00	433251.00
3	BW in 1:4	2×210.00×(0.69+0.58+0.46 +0.35)×0.15	131.04	@4700.00	615888.00
4	Plinth	1×2×210.00×0.60	252.00	@150.00	37800.00
5	CC	2×210.00×0.35×0.05	7.35	@6350.00	46672.50
		1×210.00×0.60×0.05	6.30	@6350.00	40005.00
6	RCC 1:1½:3	1×210.00×1.30×0.23	62.79	@8350.00	524296.50
5	MS in @2%		98.58	@6400.00	630912.00
Total					2366499.00
Add : 12% GST					283979.88
Total					2650478.88

POLE

Total Length of Pole

1153.65 Rmt.

1	Excavation	1×1×1155.00×0.60×0.60	415.80	@130.00	54054.00
2	CC 1:5:10	1×1153.00×0.60×0.10	69.18	@3900.00	269802.00
3	BW in foundation	1×1153.00×(0.45+0.35×0.2 3)×0.15	91.749975	@4700.00	431224.88
4	BW in Pillar	1153.00×0.115×1.22 460×0.23×0.23×1.22	161.7659 29.68748	@159.11 @29.69	25738.57 881.42
5	Plaster	1×2×1153.00×2.67	6157.02	@150.00	923553.00
6	Painting	same as in 5	6157.02	@80.00	492561.60
7	Gate	9×2 = 18×1.00	18	@6400.00	115200.00
Total					2313015.48
Add : 12% GST					277561.86
Total					2590577.33

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WATER SUPPLY

Total length of water supply line		2410.00 Rmt.	
Take everage dia 5"	2410.00×455.00		1096550.00
Add 20% of specials activity			219310.00
1 Excavation	2410.00×0.60×1.00		187980.00
		Total	1503840.00
		Add : 12% GST	180460.80
		Total	<u>1684300.80</u>

SEWER LINE

1	Excavation	$1 \times 2410.00 \times 1.00 \times 1.00$	=	2410.00	@130.00	313300.00
2	Supply/Laying of Sewer Line					
	(i) 6" Dia	1444.00×356.70	=			515074.80
	(ii) 10" Dia	482.05×356.70	=			232348.10
	(iii) 12" Dia	482.00×518.55	=			249941.10
3	Construction of connecting chambers	$60 \times 60 \times 75$	=			
		$503/2 = 251.50 = 252$				
	EWS and LIG (52+52)	$106/3 = 35M$				
		$252 + 35 = 287 \times 6849.50$	=			1965806.50
4	Manhole $2410/25 = 96 + 40$ $= 100$	100×16720.00				1672000.00
					Total	4948470.50
					Add : 12% GST	593816.46
					Total	5542286.96

PLANTATION AND LAND SCAPING

1	Both sides of 12M wide road @ 10	$2 \times 587 \times 68 / 12 = 117.53$	=	118 Nos.	
	Cost of plantation with tree guard	118×2000	=		236000.00
2	Land scaping and plantation in park	$5615.00 @ 500/\text{sqm.}$	=		2807500.00
		<u>M. Shammul</u>			
				Total	3043500.00
				Add : 12% GST	365220.00
				Total	3408720.00



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Over Head Tank (OHT)

1	Capacity	1000 Ltr.
	Hence construction cost @ 12.50/Ltr	
	$1000 \times 1000 \times 12.50$	12500000.00
	Cost of boring,	2500000.00
	submersible pump and	
	rising main and pump room.	
	STP (L.S.)	
	(CIVIL COST+MACHINERY)	4000000.00
	Total	19000000.00
	Add : 12% GST	2280000.00
	Total	<u>21280000.00</u>

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ELECTRIFICATION

1 S/F 9.00m Pole	18500.00×25	= Rs.	462500.00
2 S/F 7.500m Pole	12500.00×75	= Rs.	937500.00
3 S/F Insulator and Fittings	3500.00×100	= Rs.	350000.00
4 S/F Aluminium wire dog wire	102.00/R 9630.00	= Rs.	982260.00
5 S/F Street Light	5000/each×100.00	= Rs.	500000.00
6 S/F Transfarmer and Pannels etc.	1000000.00×2	= Rs.	2000000.00
	Total Rs.		5232260.00
	Add : 12% GST (+) Rs.		627871.20
	Total Rs.		<u>5860131.20</u>

M. Shannul